

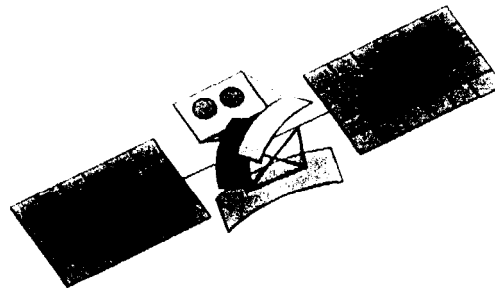
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European Commission - Directorate General for Transport

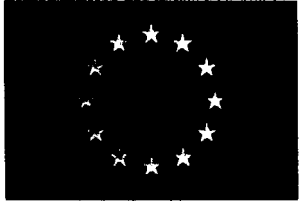
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## Civil GPS Service Interface Committee Meeting (CGSIC)

*7-9 April 1998, Alexandria (Virginia)*



Luc TYTGAT  
European Commission  
*DG VII/A-2*



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## “Towards a Trans-European Positioning and Navigation Network, including a European Strategy for GNSS”

- ◆ Efficient and cost effective systems of navigation and positioning
  - ◆ High levels of safety
  - ◆ Security and defence considerations
  - ◆ World market: equal opportunities for Europe
  - ◆ Adequate control of the system
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## 2 STEP APPROACH

### GNSS - 1

- ◆ early benefits from GPS/GLONASS
- ◆ a European contribution: EGNOS
- ◆ a consistent approach SBAS/GBAS
- ◆ a positive environment for European industry

### GNSS-2

- ◆ satellite-based navigation, positioning and timing services from a system designed for civil use



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## **GNSS improving the transport system:**

- ◆ multimodal approach
- ◆ international cooperation
- ◆ a 2 step approach (GNSS1 - GNSS2)

## **GNSS and other applications**

- ◆ leisure, fisheries, fraud prevention, natural risk management, earth observation, humanitarian actions

## **GNSS creating new markets opportunities**

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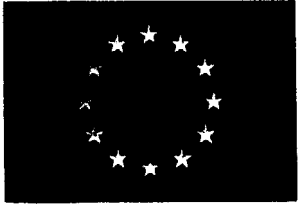
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## Overall Strategy

**3 options to ensure an effective E.U. role in the long term development of GNSS:**

- ◆ *joint developments by all the major players*
- ◆ ***E. U.** with one or more international partners*
- ◆ *independent development by E. U.*



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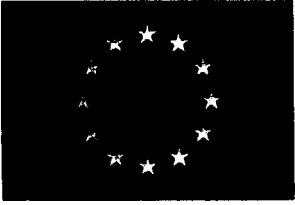
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## Overall Strategy

**Urgent action is required to establish whether the E.U. can obtain:**

- ◆ *firm guarantees of service*
- ◆ *full European participation in design, development and operation*
- ◆ *fair opportunities for European industry*



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## GNSS-2 options:

- ◆ space configuration and lifetime
- ◆ optimum performance levels
- ◆ other users (telecom, military)
- ◆ certification and guarantees
- ◆ GPS/GLONASS enhancement



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## Industry

- ◆ fair and free competition
- ◆ intellectual property rights
- ◆ Public Private Partnerships





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## International dimension

- ◆ feasibility of agreements? (US, Russia)
- ◆ interoperability arrangements
- ◆ regional cooperation
- ◆ international organisations



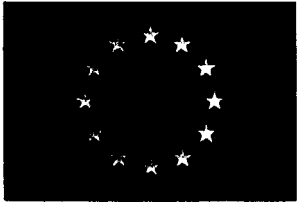
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## Institutional issues

- ◆ European Tripartite Group
- ◆ a suitable body to regulate services (EGNOS)
- ◆ an operational structure (service guarantor and an operator)
- ◆ civil/military interface



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## Financing

- ◆ “options for charging for GNSS-1 and 2 services should be explored”
  - ◆ Community contribution to:
    - ➔ EGNOS (1995-1999) 50 **MECU**; total cost MECU
    - ➔ Possibility of EGNOS FOC; additional cost 130 MECU
    - ➔ Support development in third countries would be needed; cost 50 MECU  
(*South America, Caribbean, Eastern Europe, CIS*)
    - ➔ GNSS-2: 300 - 4000 MECU
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- ◆ financial planning: cost/benefit analysis; TENs + 5th Framework Program
- ◆ charging options:
  - ✦ in line with infrastructure charging policy but:
    - ✧ *GPS, GLONASS: free service may limit users willingness to pay for a new service*
    - ✧ *broad range of potential users difficult to identify and charge (consultation to take place)*



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## Council Conclusions

- ◆ confirm the importance of GNSS for Europe
- ◆ reaffirm the need to continue with EGNOS implementation
- ◆ calls 'on the Commission to assess the feasibility of joint development and to ensure GNSS-2 options remains open